



93

520.38682X00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

MAY 20 2003

Technology Center 2100

Applicants: S. NAKAYAMA, et al

Serial No.: 09/608,151

Filed: June 30, 2000

For: STORAGE SUBSYSTEM AND STORAGE CONTROLLER

Group: 2182

Examiner: A. Elamin

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

May 15, 2003

Sir:

In the matter of the above-identified application, applicants are submitting herewith a copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration.

This information disclosure statement is being submitted before the mailing date of either a final action or a notice of allowance and is accompanied by the fee of \$180.00 set forth in 37 CFR §1.17(p).

To the extent the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR §1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language translation of the documents.

05/16/2003 SDENBOB1 00000025 09608151

01 FC:1806

180.00 DP

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus Deposit Account No. 01-2135 (520.38682X00) please credit any excess fees to such deposit account.

Respectfully submitted,



Carl I. Brundidge
Registration No. 29,621
ANTONELLI, TERRY, STOUT & KRAUS, LLP

CIB/jdc
(703) 312-6600

FORM PTO-1449 U.S. Department of
Commerce (Rev. 4/92) Patent and Trademark
Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

520.38682X00

SERIAL NO.

09/608,151

APPLICANT

S. NAKAYAMA, et al

FILING DATE

June 30, 2000

GROUP

2182



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 9 1 4 6 5 6	4/90	Dunphy, Jr.			
	4 9 8 9 2 0 5	1/91	Dunphy, Jr.			RECEIVED
	5 4 6 9 5 6 4	11/95	Junya			MAY 20 2003
	5 0 7 7 7 3 6	12/91	Dunphy, Jr.			Technology Center 2100
	5 7 4 8 9 2 4	5/98	Llorens et al			
	5 6 5 7 4 4 5	8/97	Pearce			
	5 6 5 1 1 3 9	7/97	Cripe et al			
	5 6 4 4 7 8 9	7/97	Matthews et al			
	5 6 2 3 6 3 7	4/97	Jones et al			
	5 6 1 0 7 4 6	3/97	Ranalli			
	5 5 4 8 7 8 3	8/96	Jones et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
0 1 1 8 1 1 3 9	7/99	Japan			XX
0 3 1 0 5 4 1 9	5/91	Japan			XX
0 3 1 5 2 6 5 0	6/91	Japan			XX
0 5 1 8 1 6 0 9	7/93	Japan			XX
0 5 2 2 5 0 6 8	9/93	Japan			XX
0 5 3 2 4 4 4 5	12/93	Japan			XX

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 U.S. Department of
Commerce (Rev. 4/92) Patent and Trademark
Office

ATTY. DOCKET NO.

520.38682X00

SERIAL NO.

09/608,151

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

APPLICANT

S. NAKAYAMA, et al

FILING DATE

June 30, 2000

GROUP

2182

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE
	5 5 3 3 1 2 5	7/96	Bensimon et al			
	5 5 2 8 5 8 4	6/96	Grant et al			RECEIVED
	5 2 9 7 2 6 8	3/94	Lee et al			MAY 20 2003
	5 2 8 2 2 4 7	1/94	McLean et al			Technology Center 2100
	5 2 7 4 7 8 3	12/93	House et al			
	5 2 3 9 6 3 2	8/93	Larner			
	5 2 3 7 6 6 8	8/93	Blandy et al			
	5 2 1 0 8 4 4	5/93	Shimura et al			
	5 1 6 3 0 9 6	11/92	Clark et al			
	5 1 2 4 9 8 7	6/92	Milligan et al			
	5 9 1 3 2 2 7	6/99	Raz et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
0 6 2 1 4 8 6 3	8/94	Japan			XX
6 3 2 5 3 4 4 8	10/88	Japan			XX
0 6 0 9 5 8 5 9	4/94	Japan			XX
0 8 2 5 1 1 0 1	9/96	Japan			XX
0 8 1 1 5 2 7 9	5/96	Japan			XX

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

GROUP
2182

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5	8	9	4	4	8	1	4/99	Book			
		5	8	7	2	8	2	2	2/99	Bennett			
		5	8	4	8	2	5	1	12/98	Lomelino et al		RECEIVED	
		5	8	3	5	4	9	6	11/98	Yeung et al		MAY 20 2003	
		5	8	1	2	7	5	4	9/98	Lui et al		Technology Center 2100	
		5	8	0	9	3	2	8	9/98	Nogales et al			
		5	8	0	5	9	2	0	9/98	Sprengle et al			
		5	8	0	5	8	0	0	9/98	Kotani et al			
		5	7	6	8	6	2	3	6/98	Judd et al			
		5	7	6	8	5	3	0	6/98	Sandorfi			
		6	2	1	9	7	7	7	4/01	Kikuchi et al			

[illegible]

DATE CONSIDERED

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. Department of
Commerce (Rev. 4/92) Patent and Trademark
Office

ATTY. DOCKET NO.

520.38682X00

SERIAL NO.

09/608,151

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

APPLICANT

S. NAKAYAMA, et al

FILING DATE

June 30, 2000

GROUP

2182



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6 1 8 5 2 0 3	2/01	Berman			
	6 1 1 8 7 7 6	9/00	Berman			
	6 0 6 1 7 5 3	5/00	Ericson			
	6 0 4 1 3 8 1	3/00	Hoese			
	5 9 4 1 9 7 2	8/99	Hoese et al			
	5 9 4 1 9 6 9	8/99	Ram et al			

RECEIVED

MAY 20 2003

Technology Center 2100

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.